



A073us

SEQUENCE LISTING

<110> Biogen, Inc.  
Gotwals, Philip  
Koteliansky, Victor

<120> Method for the Treatment of Fibrosis

<130> A073US

<140> 09/557,092

<141> 2000-04-21

<150> 60/137,214

<151> 1999-06-01

<150> 60/130,847

<151> 1999-04-22

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 26

<212> DNA

<213> Homo sapien

<400> 1

caggatccgt cagccccaca tttcaa  
26

<210> 2

<211> 26

<212> DNA

<213> Homo sapien

<400> 2

tcctcgaggg cttgcagggc aaatat  
26

<210> 3

<211> 26

<212> DNA

<213> Rat

<400> 3

caggatccgt cagtcctaca tttcaa  
26

A073us

<210> 4  
 <211> 26  
 <212> DNA  
 <213> Rat

<400> 4  
 tcctcgagcg cttccaaagc gaatat  
 26

<210> 5  
 <211> 214  
 <212> PRT  
 <213> Rat

<400> 5  
 Val Ser Pro Thr Phe Gln Val Val Asn Ser Phe Ala Pro Val Gln Glu  
 1 5 10 15  
 Cys Ser Thr Gln Leu Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser  
 20 25 30  
 Ile Tyr Pro Trp Glu Ser Val Ile Ala Phe Leu Asn Asp Leu Leu Lys  
 35 40 45  
 Arg Met Asp Ile Gly Pro Lys Gln Thr Gln Val Gly Ile Val Gln Tyr  
 50 55 60  
 Gly Glu Asn Val Thr His Glu Phe Asn Leu Asn Lys Tyr Ser Ser Thr  
 65 70 75 80  
 Glu Glu Val Leu Val Ala Ala Lys Lys Ile Gly Arg Gln Gly Gly Leu  
 85 90 95  
 Gln Thr Met Thr Ala Leu Gly Ile Asp Thr Ala Arg Lys Glu Ala Phe  
 100 105 110  
 Thr Glu Ala Arg Gly Ala Arg Arg Gly Val Lys Lys Val Met Val Ile  
 115 120 125  
 Val Thr Asp Gly Glu Ser His Asp Asn Tyr Arg Leu Lys Gln Val Ile  
 130 135 140  
 Gln Asp Cys Glu Asp Glu Asn Ile Gln Arg Phe Ser Ile Ala Ile Leu  
 145 150 155 160  
 Gly His Tyr Asn Arg Gly Asn Leu Ser Thr Glu Lys Phe Val Glu Glu  
 165 170 175  
 Ile Lys Ser Ile Ala Ser Glu Pro Thr Glu Lys His Phe Phe Asn Val  
 180 185 190  
 Ser Asp Glu Leu Ala Leu Val Thr Ile Val Lys Ala Leu Gly Glu Arg  
 195 200 205  
 Ile Phe Ala Leu Glu Ala  
 210

<210> 6  
 <211> 214  
 <212> PRT  
 <213> Homo sapien

<400> 6

A073us

Val	Ser	Pro	Thr	Phe	Gln	Val	Val	Asn	Ser	Ile	Ala	Pro	Val	Gln	Glu
1				5				10						15	
Cys	Ser	Thr	Gln	Leu	Asp	Ile	Val	Ile	Val	Leu	Asp	Gly	Ser	Asn	Ser
			20					25					30		
Ile	Tyr	Pro	Trp	Asp	Ser	Val	Thr	Ala	Phe	Leu	Asn	Asp	Leu	Leu	Lys
		35					40					45			
Arg	Met	Asp	Ile	Gly	Pro	Lys	Gln	Thr	Gln	Val	Gly	Ile	Val	Gln	Tyr
	50					55					60				
Gly	Glu	Asn	Val	Thr	His	Glu	Phe	Asn	Leu	Asn	Lys	Tyr	Ser	Ser	Thr
65					70					75					80
Glu	Glu	Val	Leu	Val	Ala	Ala	Lys	Lys	Ile	Val	Gln	Arg	Gly	Gly	Arg
				85					90					95	
Gln	Thr	Met	Thr	Ala	Leu	Gly	Thr	Asp	Thr	Ala	Arg	Lys	Glu	Ala	Phe
			100					105					110		
Thr	Glu	Ala	Arg	Gly	Ala	Arg	Arg	Gly	Val	Lys	Lys	Val	Met	Val	Ile
		115					120					125			
Val	Thr	Asp	Gly	Glu	Ser	His	Asp	Asn	His	Arg	Leu	Lys	Lys	Val	Ile
	130					135					140				
Gln	Asp	Cys	Glu	Asp	Glu	Asn	Ile	Gln	Arg	Phe	Ser	Ile	Ala	Ile	Leu
145					150					155					160
Gly	Ser	Tyr	Asn	Arg	Gly	Asn	Leu	Ser	Thr	Glu	Lys	Phe	Val	Glu	Glu
			165					170						175	
Ile	Lys	Ser	Ile	Ala	Ser	Glu	Pro	Thr	Glu	Lys	His	Phe	Phe	Asn	Val
		180						185					190		
Ser	Asp	Glu	Leu	Ala	Leu	Val	Thr	Ile	Val	Lys	Thr	Leu	Gly	Glu	Arg
		195					200					205			
Ile	Phe	Ala	Leu	Glu	Ala										
		210													

<210> 7  
 <211> 6  
 <212> PRT  
 <213> Rat

<400> 7  
 Gly Arg Gln Gly Gly Leu  
 1 5

<210> 8  
 <211> 6  
 <212> PRT  
 <213> Homo sapien

<400> 8  
 Val Gln Arg Gly Gly Arg  
 1 5

<210> 9  
 <211> 214  
 <212> PRT  
 <213> Homo sapien

## A073us

&lt;400&gt; 9

Val	Ser	Pro	Thr	Phe	Gln	Val	Val	Asn	Ser	Ile	Ala	Pro	Val	Gln	Glu
1				5				10						15	
Cys	Ser	Thr	Gln	Leu	Asp	Ile	Val	Ile	Val	Leu	Asp	Gly	Ser	Asn	Ser
			20					25					30		
Ile	Tyr	Pro	Trp	Asp	Ser	Val	Thr	Ala	Phe	Leu	Asn	Asp	Leu	Leu	Lys
		35					40					45			
Arg	Met	Asp	Ile	Gly	Pro	Lys	Gln	Thr	Gln	Val	Gly	Ile	Val	Gln	Tyr
	50					55					60				
Gly	Glu	Asn	Val	Thr	His	Glu	Phe	Asn	Leu	Asn	Lys	Tyr	Ser	Ser	Thr
65					70					75					80
Glu	Glu	Val	Leu	Val	Ala	Ala	Lys	Lys	Ile	Val	Gln	Arg	Gly	Gly	Arg
				85					90					95	
Gln	Thr	Met	Thr	Ala	Leu	Gly	Thr	Asp	Thr	Ala	Arg	Lys	Glu	Ala	Phe
			100					105					110		
Thr	Glu	Ala	Arg	Gly	Ala	Arg	Arg	Gly	Val	Lys	Lys	Val	Met	Val	Ile
		115					120					125			
Val	Thr	Asp	Gly	Glu	Ser	His	Asp	Asn	His	Arg	Leu	Lys	Lys	Val	Ile
	130					135					140				
Gln	Asp	Cys	Glu	Asp	Glu	Asn	Ile	Gln	Arg	Phe	Ser	Ile	Ala	Ile	Leu
145					150					155					160
Gly	Ser	Tyr	Asn	Arg	Gly	Asn	Leu	Ser	Thr	Glu	Lys	Phe	Val	Glu	Glu
				165					170					175	
Ile	Lys	Ser	Ile	Ala	Ser	Glu	Pro	Thr	Glu	Lys	His	Phe	Phe	Asn	Val
			180					185					190		
Ser	Asp	Glu	Leu	Ala	Leu	Val	Thr	Ile	Val	Lys	Thr	Leu	Gly	Glu	Arg
		195					200					205			
Ile	Phe	Ala	Leu	Glu	Ala										
	210														

&lt;210&gt; 10

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; homo sapien

&lt;400&gt; 10

Val	Gln	Arg	Gly	Gly	Arg	Gln
1				5		